

From qrp-1@lehigh.edu Tue Jun 6 16:29:55 1995
Message-Id: <9505068024.AA802463207@bills.hn.va.nec.com>
From: John Foote <footej@hn.va.nec.com>
Subject: 40 meter "tent portable"
Date: Tue, 6 Jun 1995 12:29:55 EDT

Chatted last night at 7.050 with KB4UCT, who was in Cumberland Tenn.
in a tent, with an MFJ and a dipole up 15 ft.

I was pleasantly surprised. He 589 with 5 watts. I worked him at 5
watts from my end.

He and a friend are on a motorcycle trip to Arizona over the next
little while.

He has a sched. every night at 8 PM eastern with a KB4VJI, and invited
me to join them tonight.

In case I don't catch him with his little dipole, and since he
cordially invited me to jump into his sked., I thought the rest of the
group might want to look for him.

His first name is Ernie. I haven't taken the time to look up his last
name and home QTH yet.

Look for him (and me) at about 7.050 every night for a while at 8 PM
eastern. (I suppose that time will change as he moves west.)

Had a great time for at least 45 minutes with him. I guess once it
gets dark there isn't much else to do in your tent but chat with your
friends in the ether if you're a radio nut.

72 de KR4GL
John Foote

From qrp-1@lehigh.edu Tue Jun 6 16:53:05 1995
Message-Id: <9506061651.AA13555@garnet.inel.gov>
From: LVE1@inel.gov (Larry East)
Subject: Re: 40 meter "tent portable"
Date: Tue, 6 Jun 1995 12:53:05 EDT

>
> ... I guess once it
> gets dark there isn't much else to do in your tent but chat with your

> friends in the ether if you're a radio nut.
>

Well, that sort of depends on how "friendly" one is with one's traveling companion...

From qrp-l@lehigh.edu Tue Jun 6 17:46:49 1995
Message-Id: <9506061801.AA07031@dtcs70.dtc.kodak.com>
From: mitchell@dtcs70.dtc.kodak.com (Brad Mitchell)
Subject: AGC circuit using photo resistor feedback.
Date: Tue, 6 Jun 1995 13:46:49 EDT

I saw a circuit in a book that was given to me that used a photo resistor that was illuminated more with more audio output. The resistor is the feedback resistor in a 741 non-inverting configuration. The premise is that the more output, the more illumination, thus reducing the gain of the amp. Also, the properties of the photo resistor are such that it provides for quick attack response, and slow decay response. Just a novel circuit that I thought may be of interest to the group.

73

/ /	Bradley S. Mitchell Senior Project Development Engineer
/ /	Eastman Kodak Company
/ /	KEMD Electronic Products
< < K O D A K	Circuit Board Assembly Dept. 606 Test Engineering
\ \	901 Elmgrove Road Rochester, N.Y. 14653-5211
\ \	(716) 726-5775, FAX (716) 726-7109
\ \	INTERNET: bmitchel@kodak.com
-----	Amateur Radio Callsign WB8YGG

From qrp-l@lehigh.edu Tue Jun 6 18:48:35 1995
Message-Id: <199506061847.QAA21783@public.compuser.com>
From: rgobrick@public.compuser.com (Robert J. Gobrick)
Subject: Back issues of qrp-l digests
Date: Tue, 6 Jun 1995 14:48:35 EDT

QRP-L gang

Just back from a nice vacation in the sunny and comfortable midwest (Minneapolis/St.Paul) and what happens but a new QRP-L host appears. Nice job to Chuck and the gang and a nice job from the previous host folks at Netcom.

OK my question? Are there copies of the first 17 qrp-1 digests available? I thirst to find out what I missed during those 'lost" days of Netcom closing down and Lehigh starting up.

Thanks 73/72 Bob V01DRB/WA6ERB

From qrp-l@lehigh.edu Tue Jun 6 14:53:53 1995
Message-Id: <199506061453.KAA79361@nss1.CC.Lehigh.EDU>
From: "Michael T. Weaver, RN Ph.D." <NURS036@UABDPO.DPO.UAB.EDU>
Subject: Backpackable Antennas
Date: Tue, 6 Jun 1995 10:53:53 EDT

I'm finally getting around to put the finishing touches on my NE 40-40, and would like to put together a backpackable station to take on camping trips with my scout troop.

I would like to hear what others have found to be a workable antenna setup for backpacking (so I can possibly avoid mistakes already made!).

I have not been able to decide if I should use a dipole, with resultant need for a length of coax for or balanced line+tuner for feed, or some sort of vertical setup, using minimal radials (no tuner; shorter coax run (weight); less efficient), or some other configuration.

As always, there's no free lunch, and you compromise between efficiency & weight.

I'd just like to hear what you've found to be the best compromise, in your experience!

72.

Michael

Michael T. Weaver, RN Ph.D.	Internet: nurs036@uabdpdpo.dpo.uab.edu
U. of Alabama at Birmingham	Bitnet : nurs036@uabdpdpo
School of Nursing	Radio : kg8h
UAB Station	QRP : ARCI: 8576; G-QRP: 8616

Birmingham, AL 35294-1210 Phone : (205) 934-6913
- - - - -

From qrp-1@lehigh.edu Tue Jun 6 16:41:43 1995
Message-Id: <950606124003_87907855@aol.com>
From: N5EM@aol.com
Subject: Re: Backpackable Antennas
Date: Tue, 6 Jun 1995 12:41:43 EDT

Michael,

Depends on what you have in mind. For the simplest, lightest antenna, I prefer a 40 meter dipole, fed with a piece of RG-174U. If fed to a matched antenna, the loss is nominal and you probably won't want more than 30 feet of it anyway. The dipole will give you flexibility. Hang it up as a flat top, inverted vee or sloper, depending on the trees and what you are trying to work. You can put this antenna into a zip-lock sandwich baggie after carefully coiling it up. Normally, I make an effort to locate the antenna in such a way that the feedpoint is directly above the tent to reduce the feedline run (since its about 30 feet and hard to stretch). By using this method, I can live with the short line. Need something about the size of a golf/tennis ball and some of the high-tech 3/32" dacron, no-stretch, no-rot cord for getting it up.

Some folks have had sucess with verticals, but I do not want to have to carry a tuner. No tuner means less weight, less loss, less time wasted trying to get it running.

Now, if you want to do more in the way of experimenting, you can get more complicated.

I have considered carrying a delta loop for 40 when weight is not such a consideration. Needs taller trees, though :-)

Obviously, the available supports are a constraint. I remember Wes Hayward discussing camping above the tree line and using an ice axe with a telescoping mast lashed to it.

Also, the telescoping aluminum hiking stick is interesting, although heavy. (Several 5-6' sections of AL tubing, starting about 1.25" diameter and working smaller, using about 4 or 5 sections). Telescope out, with hose clamps when using as mast. Cap with rubber cane tips when collapsed as a hiking stick.

Another idea from the QRP Quarterly a couple of years ago was a wooden hiking

stick, ala closet pole, wrapped with a helical winding of wire, fed at one end with a tuner against a counterpoise. The writer (sorry, I have forgotten without looking it up at the shack) suggested in a letter to me that one might use a sitka spruce closed pole, split lengthwise, hollowed out with a router, glued back together, then wrapped with wire to make a very strong, lightweight antenna section. Take a piece of water pipe insulation (gray open cell foam stuff that is split to wrap around your pipes) and use for a hand support/cusion.

Anyway, there are some of the ideas. Depends on whether you want to (have to) travel very light or can take more stuff with you.

Let us know what you do and how you like it.

72

Ed Manuel, N5EM
n5em@aol.com

From qrp-1@lehigh.edu Tue Jun 6 16:46:01 1995
Message-Id: <Pine.3.07.9506060952.J27561-8100000@bach.seattleu.edu>
From: "H. Ward Silver" <hwardsil@seattleu.edu>
Subject: Re: Backpackable Antennas
Date: Tue, 6 Jun 1995 12:46:01 EDT

Just a note...be sure to allow enough coax to leave a drip loop BEFORE it enters the tent! Nothin' like having a small river flowing down the line and right into the rig. I don't think a current balun will help here ;-)

73, Ward N0AX

From qrp-1@lehigh.edu Tue Jun 6 18:27:57 1995
Message-Id: <Pine.OSF.3.91.950606130738.3944A-1000000@Gayle-Gaston.tenet.edu>
From: Al Suttles <asuttles@tenet.edu>
Subject: Re: Backpackable Antennas
Date: Tue, 6 Jun 1995 14:27:57 EDT

Mike, you might want to take a look at the 'Build an HF Walking Stick Antenna' in the December QST. Two others to look at might be 'A Fishing

Tackle HF Station To Go' in the November QST and 'Backpacking Troop 404 Style' in the October issue.

If you'll read back through the postings of the past three weeks of QRP-L you'll find some excellent ideas. One that stands out particularly was a posting on the subject of antennas by Stu Rohre sometime during the past ten days.

PS: I'm in the process of building the 'Walking Stick Antenna' and will let you know the results. It might be ideal for your purposes since it can actually be used as a walking stick and will take only four or five minutes to set up when you get to your campsite (practice ahead of time!).

To build mine, I'm actually combining ideas from the QST article and from another entitled, oddly, 'The Portable Random Wire Antenna' in the January QRP Quarterly. I say 'oddly' because it's not about a random wire vertical at all, but rather a vertical very similar to the walking stick antenna which is made from nested aluminum tubing. But except for the odd title the article was excellent. I will be using radials with mine.

Happy trails!

Al Suttles AB5ZB
Austin, TX

From qrp-l@lehigh.edu Tue Jun 6 21:11:09 1995
Message-Id: <950606170702_88061674@aol.com>
From: N5EM@aol.com
Subject: Re: Backpackable Antennas
Date: Tue, 6 Jun 1995 17:11:09 EDT

Michael,

Depends on what you have in mind. For the simplest, lightest antenna, I prefer a 40 meter dipole, fed with a piece of RG-174U. If fed to a matched antenna, the loss is nominal and you probably won't want more than 30 feet of it anyway. The dipole will give you flexibility. Hang it up as a flat top, inverted vee or sloper, depending on the trees and what you are trying to work. You can put this antenna into a zip-lock sandwich baggie after carefully coiling it up. Normally, I make an effort to locate the antenna in such a way that the feedpoint is directly above the tent to reduce the feedline run (since its about 30 feet and hard to stretch). By using this method, I can live with the short line. Need something about the size of a golf/tennis ball and some of the high-tech 3/32" dacron, no-stretch, no-rot cord for getting it up.

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Obviously, the available supports are a constraint. I remember Wes Hayward discussing camping above the tree line and using an ice axe with a telescoping mast lashed to it.

Also, the telescoping aluminum hiking stick is interesting, although heavy. (Several 5-6' sections of AL tubing, starting about 1.25" diameter and working smaller, using about 4 or 5 sections). Telescope out, with hose clamps when using as mast. Cap with rubber cane tips when collapsed as a hiking stick.

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Anyway, there are some of the ideas. Depends on whether you want to (have to) travel very light or can take more stuff with you.

Let us know what you do and how you like it.

72

Ed Manuel, N5EM
n5em@aol.com

From qrp-1@lehigh.edu Tue Jun 6 21:16:02 1995
Message-Id: <950606171146_88062819@aol.com>
From: N5EM@aol.com
Subject: Re: Backpackable Antennas

Date: Tue, 6 Jun 1995 17:16:02 EDT

Michael,

Depends on what you have in mind. For the simplest, lightest antenna, I prefer a 40 meter dipole, fed with a piece of RG-174U. If fed to a matched antenna, the loss is nominal and you probably won't want more than 30 feet of it anyway. The dipole will give you flexibility. Hang it up as a flat top, inverted vee or sloper, depending on the trees and what you are trying to work. You can put this antenna into a zip-lock sandwich baggie after carefully coiling it up. Normally, I make an effort to locate the antenna in such a way that the feedpoint is directly above the tent to reduce the feedline run (since its about 30 feet and hard to stretch). By using this method, I can live with the short line. Need something about the size of a golf/tennis ball and some of the high-tech 3/32" dacron, no-stretch, no-rot cord for getting it up.

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72

Ed Manuel, N5EM
n5em@aol.com

From qrp-1@lehigh.edu Wed Jun 7 01:42:44 1995
Message-Id: <950606214111_63448119@aol.com>
From: JCoote@aol.com
Subject: Re: Backpackable Antennas
Date: Tue, 6 Jun 1995 21:42:44 EDT

Personally, for lightweight and hassle-free portable/emergency antennas, I like feeding all-band dipoles with 300 ohm TV line and a tuner. If the rig is monoband, then RG-58 and a standard dipole?

Where some people add too much weight and bulk is in the antenna wire and insulators. I find that stranded wire with a plastic jacket works great when you have to use it repeatedly, or string it through trees. So-called "antenna wire" gets caught and is too large of a gauge; also too hard to work with. Use a thick enough gauge for the antenna to support it's own weight; the weight of the feedline and the nylon string you'll use for guys.

Insulators... need not be the big ceramic things out of a 1950's horror film. Strips of lucite 1/8" by 3/4" by 2" are OK for the ends, 2" by 2" is OK for the center.

I've heard of a few folded dipole designs which use 300 ohm line for the antenna AND FEEDLINE. I think the feed must be a special length for 50 ohms resistive at frequency. These may be lighter, and another way to go. Anyone else know about these? Of course these are mono-band only.

72, Jay WB6AAM

From qrp-1@lehigh.edu Tue Jun 6 16:21:05 1995
Message-Id: <m0sJ1MY-00008SC@juts.ccc.amdahl.com>
From: bruce.florip@amail.amdahl.com
Subject: Birdies in my ear...
Date: Tue, 6 Jun 1995 12:21:05 EDT

To HW-9 owners:

I recently picked up an HW-9 station, and after going through the alignment I'm interested in some information from others with experience.

How many and where are the birdies located in your rig?

Maybe I should ask only on 40M so it doesn't take a week to log them :)

I found when setting up the VFO range that the trimmer on the main tuning capacitor is backed way out... far from any position that would be mechanically stable. I'm going to look into reducing the capacitance in parallel with C1 to get the trimmer into the "snug" range. Is this normal?

After I got the rig, I called about 10 stations with no replies...??? QRP normally is easy. That's what prompted the alignment. I found that by tuning in a station on the ICOM 750 and the HW-9, then putting the HW-9 on the dummy load and transmitting, that my RX to TX offset was almost 4 Khz... no wonder I didn't hear any replies :)

The RIT circuit was misadjusted (I think the control was called TX tracking or something) causing the large offset.

After the adjustments, three stations in a row! Two in the 40 M novice band, and one at 7040 (CA to MT). I knew qrp was easy :)

73,

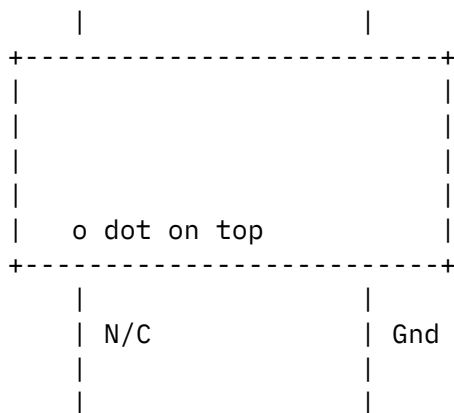
Bruce aa7ar/6 bruce.florip@amail.amdahl.com

From qrp-1@lehigh.edu Tue Jun 6 18:40:46 1995
Message-Id: <199506061839.NAA22918@chuck.dallas.sgi.com>
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: Crystal Osc's
Date: Tue, 6 Jun 1995 14:40:46 EDT

Gang,

In case you find these critters at a flea market, they are small metal cases about 0.82"x0.52" from the top. They have four legs out the bottom and from the top

Vcc	Freq Out



Mike C, WA8MCQ, gave me a couple of these puppies for 80M while at Dayton for his price of \$0.25. These are the same critters that are used in the Fireball QRPp MicroWatt transmitters on 10M.

These puppies run about \$3.25 to \$4.08 in the new Mouser Electronics catalog, page 56. The frequency of interest is 3.686400MHz and 28.322000MHz.

If you run into them at a meet at a good price, it might be fun to play with them. DO NOT hook them up direct to an antenna. They generate square waves and you will need a lot of filtering before you output to the antenna.

Vcc is 5V and they output 1.4VDC levels, consume 10mA below 24.00MHz and 30mA at higher freqs. So we are talking low output power here gang. Very low after all the filtering.

For a simple transmitter it is probably better to go with the NE Colorburst Xtal transmitter, but these will give you something to do with all the spare time we have. :-)

All this in prep for the winter months which will be upon us before we know it. 10M will take a little bit longer to come back.

Looks like I will have an entire island to myself in the Carribean where no ham has operated before starting mid-September. So I'm starting early. :-) I'll be asking for help on licensing paperwork as I nail down the beachfront property. :-)

FYI

dit dit

--

Chuck Adams K5FO CP-60 adams@sgi.com

From qrp-1@lehigh.edu Tue Jun 6 20:26:00 1995
Message-Id: <Pine.3.89.9506061342.A13495-01000000@freenet.vancouver.bc.ca>
From: "John D. Spittle" <jds@freenet.vancouver.bc.ca>
Subject: Re: Great Circle Bearings - more trivia
Date: Tue, 6 Jun 1995 16:26:00 EDT

Alan:

Re: DMS v. decimalized degrees

I don't believe the Basic programs for the C-64 had a built-in DMS conversion - you had to write your own. However, my Sharp PC-1211 "pocket computer" from that era did and proved to be an invaluable tool for analyzing some nineteenth century surveys in the Pacific Northwest.

To add to the confusion, the Army at that time used degrees - minutes - and decimalized seconds. The Navy (to be different) used degrees - minutes - seconds - thirds (1/60 sec) for Latitude and hours (15 deg) - minutes etc. for Longitude. It is not surprising that we remained undiscovered for so long!

72 derry VE7QK

From qrp-1@lehigh.edu Tue Jun 6 13:43:38 1995
Message-Id: <9506061337.AA07407@easynet.crl.dec.com>
From: Bill Acito <acito@asdg.enet.dec.com>
Subject: re: How to turn off Digest mode?
Date: Tue, 6 Jun 1995 09:43:38 EDT

>>>>set qrp-1 mail ack

...will get you back from digest mode. It will send one last partial digest, and then switch you over.

b

. - I own my own words -

Bill Acito |d|i|g|i|t|a|l|
acito@asdg.enet.dec.com Digital Equipment Corporation
 Digital Semiconductor - Fab 6
 Hudson, MA

```
kc1gs
(grp-ne #260, norcal #1147, arrl life)
```

From qrp-1@lehigh.edu Tue Jun 6 14:45:39 1995
Message-Id: <9506061444.AA10963@garnet.inel.gov>
From: LVE1@inel.gov (Larry East)
Subject: Is it still winter??
Date: Tue, 6 Jun 1995 10:45:39 EDT

I thought those of you in the southwest complaining about the heat might like to know that it is SNOWING this morning up here in SE Idaho!! Temp at 7:30AM was about 35 F with forecast high of about 45 F. One thing I can't figure out: if its still winter, how come there is so darn much noise on 40M?

Both my old HyGain trap vertical and new GAP Voyager DX survived 60-70 MPH winds last night... Oh the joys of high desert living!

72, Larry W1HUE/7
LVE1@inel.gov

PS -- Still waiting for my ORP+ ...

From qrp-1@lehigh.edu Tue Jun 6 14:57:52 1995
Message-Id: <199506061455.JAA22115@chuck.dallas.sgi.com>
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: Re: Is it still winter??
Date: Tue, 6 Jun 1995 10:57:52 EDT

Larry, W1HUE/7, was commenting on his snow. Hey, we'll take some. It's going over 95 degrees F today here in Big-D.

I was on last night and I can tell you why there was so much QRN. Thunderboomers just to the north of me really made listening a joy. :-) I can assure you that the AGC in the Sierra was popping quite frequently. I didn't hear anything on the band but 9s and some 6s for 0200-0500Z. An occasional 5, but noone of any strength.

Hopefully tonight it won't be as bad.

Tell you what. I'll start out on 30M, 10.106 and up some 5 to 10KHz as band occupancy determines. Will remain there for an hour or so. We'll see how 30M is doing. I noted that the GC-1000 was locked on 10MHz WWV until well after midnight.

dit dit

--

Chuck Adams K5FO CP-60 adams@sgi.com

From qrp-1@lehigh.edu Tue Jun 6 14:59:13 1995
Message-Id: <950606105725.202bed8f@carib.vf.mmc.com>
From: JEVERHART@cayman.vf.mmc.com
Subject: RE: Is it still winter??
Date: Tue, 6 Jun 1995 10:59:13 EDT

Larry, you wrote, in part:

> I thought those of you in the southwest complaining about the heat might
> like to know that it is SNOWING this morning up here in SE Idaho!! Temp at
> 7:30AM was about 35 F with forecast high of about 45 F. One thing I can't
> figure out: if its still winter, how come there is so darn much noise on 40M?

You have mentioned in the past that you are far from civilization. Maybe word just hasn't gotten through yet that winter is over!

And I think you must have the noise that plagued me during the Hoot Owl Sprint! 40 has really been bad for me this year with frequent high noise levels. I hate to think what it'll be like in summer :-(.

72/73,

Joe E. N2CX

From qrp-1@lehigh.edu Tue Jun 6 15:56:36 1995
Message-Id: <199506061554.JAA29421@zia.aoc.nrao.edu>
From: Paul Harden <pharden@aoc.nrao.edu>
Subject: Re: Is it still winter??
Date: Tue, 6 Jun 1995 11:56:36 EDT

Actually your snow fall sounds a bit refreshing. It has been in the mid-90's here in the southwest desert for a couple of weeks and definitely feels like summer. Been very dry (zero snow here all winter), but autumn type thunderstorms past few evenings. No rain out of them, but plenty of lightning.

Tried to hear Chuck last nite on 40M, but way too much QRM here. Will try again tonite to hear Chuck on 30 and 40M as he mentioned.

How about everybody else? Lets try out 10.106 and 7.040 after dinner for the rest of the week if your schedules allow and see if we can hook up? Mini fox hunt!

72, Paul NA5N

From qrp-1@lehigh.edu Tue Jun 6 16:39:24 1995
Message-Id: <Pine.SUN.3.90.950606093219.20241A-1000000@nimbus>
From: Monte Stark <ku7y@sage.dri.edu>
Subject: Re: Is it still winter??
Date: Tue, 6 Jun 1995 12:39:24 EDT

Larry & all,

Snowing yesterday and today. Temp this am was mid 30's. Winds gusting over 60mph yesterday. One twister ruined some mobile homes in Silver Springs, NV.

And I am still trying to figure out how to get a line over some trees. In this wind I can't even hit the right yard let alone the right tree!

Will be wearing a Tux on the 25th in Phoenix. Will then have all the heat I need and then some.

Any QRPers on 2m in the Phoenix? If so I'll bring the handy yapper. (No HF this trip).

cul,

73, Ron, dah, dah (I'm three times slower than Chuck)

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Sun Valley, Nevada....
.....ARRL.....NorCal #330.....NRA LIFE.....

From qrp-1@lehigh.edu Tue Jun 6 17:15:21 1995
Message-Id: <9506061716.AA01875@ringworld.upl.com>
From: kub@upl.com (Steve Kubisch)
Subject: Re: Is it still winter??
Date: Tue, 6 Jun 1995 13:15:21 EDT

Is this June 6?? It snowed at my QTH near SLC last nite too. Winds
up to 100 MPH. I should have known when it was 55 deg F in January that
we would pay for it sooner or later. Larry, I grew up in Idaho Falls and its
not the first time it has snowed in June. Ahh, smell that Rocky Mountain
Air!!

73,
Steve -WW7Y-

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>like to know that it is SNOWING this morning up here in SE Idaho!! Temp at
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>PS -- Still waiting for my QRP+ ...
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>
>
>

From qrp-1@lehigh.edu Tue Jun 6 20:48:00 1995
Message-Id: <199506062046.PAA23578@chuck.dallas.sgi.com>

From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: Jim E. does it again
Date: Tue, 6 Jun 1995 16:48:00 EDT

Gang,

Another round of applause for Jim Eshleman
<lujce@hooch.CC.Lehigh.EDU>, owner of the system for qrp-l
list!!!

This morning he said that he would look at the possibility
of getting a program to do what I outlined, i.e. put in
two calls, go to FCC database, then to geo to get lat/long,
and then run gc. It works.

It may need a thorough checkout, so at first test drive with
care and let him know (and the group, if it's not too much)
how you like it.

send email to LISTSERV@LEHIGH.EDU and in body put

```
RUN QRP-L X CALLS2DIST CALL1 CALL2
```

where CALL1 and CALL2 are in the FCC database. Sorry,
this will not work for DX calls.

I think you'll like it. I tried K5FO and W7DNE and I got

Output from stdout:

K5FO ZIP = 75067

W7DNE ZIP = 98620

K5FO Lat/Long = 33 02 46 N 96 59 38 W

W7DNE Lat/Long = 45 49 15 N 120 49 14 W

Output from "gc 33.0276N96.5963W 45.4925N120.4923W":

Bearing is 312 Degrees for 1336 Nautical Miles = 1537 Miles = 2474 Km

The above agrees exactly with what I get from my own program and the
database that I use all the time. Works for me.....

Now have we got this down to a science or what?

If you send one email with several lines requesting distance

calculations, you'll get them but in seperate messages back from the server. Not a problem for me, but be aware that it does happen.

dit dit es tn timer Jim again for a job well done. He's got too much time on his hands.

: -)

--

Chuck Adams K5FO CP-60 adams@sgi.com

From qrp-1@lehigh.edu Tue Jun 6 19:47:14 1995
Message-Id: <9506061940.AA16941@deneb.csustan.edu>
From: dh@deneb.csustan.edu (Doug Hendricks)
Subject: Joy of QRP
Date: Tue, 6 Jun 1995 15:47:14 EDT

Sunday was the second anniversary of the founding of the NorCal QRP Club. We celebrated by having a club table at the Livermore swap meet. Samples of all the club projects were there, the NorCal 40, the NorCal 40A, the Sierra, and the Cascade. It was interesting to see the development in the complexity and the skill of the kits. We signed up several new members, and there was always a crowd of 10 to 15 around the booth.

Jim found a couple of Ten Tec accessories and I wondered off to check out the goodies. When I returned, I got the shock of the day. Jim had another box of goodies, and in it was "The Joy of QRP". Not just a copy, but a mint condition copy!!!!!!! I have been looking for another copy of that book for 10 years. I had one that I ordered from Ade Weiss, the author, and it was personally inscribed. But, it was a casualty of the move from Kansas to California. I immediately asked Jim, "Where did you get this??? How much do you want for it? I have to have it. Name your price." All of this came out before Jim had a chance to answer. Finally, I shut up and Jim said, "Its not for sale."

I know that I must have had the most crestfallen look in the world as my shoulders sagged with disappointment. Jim, with a twinkle in his eye, said, "Its not for sale, because it is a gift for a good friend, you!". The whole thing was set up by Jim. One of our members had called him and said that he had some QRP gear that he was not using any more and was Jim interested in it. He also mentioned in passing that he had a good book on QRP, "The Joy of QRP", and was Jim interested in that also. Jim said that he already had the book, but that I had been coveting his copy for years, and that I would certainly be thrilled to get it. Boy was I. I think

that I would have been a great study in reactions, from the depths of despair and disappointment when Jim told me that it wasn't for sale, to the "JOY" of finding out that YES YES IT WAS MINE!!!!!!!!!!!!!! Jim had set it up for the member to bring it to Livermore to give to me. What a Guy!!

Thank you Jim, for being a friend. I will treasure this book as one of my most favorite possessions. Because it is about QRP, and most of all because it came from you, a true friend.

Guys, I have a copy of the "Joy of QRP". I sat down and read it from cover to cover as soon as I got home. It is a wonderful book. It reads as well now as it did when I first got it. Ade, you must reprint this book. It is a classic. MINE is NOT for SALE. Don't even ask.

The second anniversary of NorCal was a truly memorable day.

72, Doug, KI6DS

From qrp-1@lehigh.edu Wed Jun 7 01:21:40 1995
Message-Id: <199506070120.WAA30503@public.compuser.net>
From: rgobrick@public.compuser.net (Robert J. Gobrick)
Subject: Re: Joy of QRP
Date: Tue, 6 Jun 1995 21:21:40 EDT

Doug,

What a great gift - maybe someday the qrp tooth fairy will put one under my pillow - I too would like to get a copy and I'll be posting my annual Christmas plea for such a gift to a "good" qrper all year ;-)

And yes I second the request that Ade do a reprint of the book - I have saved his History of QRP and I have cut out back articles from his old CQ column - but I have never had a chance to read the Joy of QRP. Anyway want to make a library loan to me?

Thanks 73/72 Bob VO1DRB/WA6ERB

>Guys, I have a copy of the "Joy of QRP". I sat down and read it from cover
>to cover as soon as I got home. It is a wonderful book. It reads as well
>now as it did when I first got it. Ade, you must reprint this book. It
>is a classic. MINE is NOT for SALE. Don't even ask.

>

>The second anniversary of NorCal was a truly memorable day.

>

>72, Doug, KI6DS

>

>

Bob Gobrick - V01DRB/WA6ERB/VE2DRB - Newfoundland, Canada
QRPer Galore - ARCI, GQRP, NORCAL, NEQRP, COQRP, MIQRP, NWQRP

Internet: rgobrick@public.compusult.nf.ca
 bgobrick@terra.nlnet.nf.ca

Compuserve: 70466.1405@compuserve.com

From qrp-1@lehigh.edu Tue Jun 6 14:45:25 1995
Message-Id: <95060614433100@psuh02meteo.psu.edu>
From: penc@psuh02meteo.psu.edu
Subject: June '95 QRPP??
Date: Tue, 6 Jun 1995 10:45:25 EDT

Gang:

Anyone receive their QRPP for June, and did anyone post a contents on this list?

Usually a TOC (table of Contents) appears when it is mailed. I don't seem to have received any email regarding this issue. Usually there are a number of posts re: the latest QRPP issue and I haven't seen any.

de Rich WK2A
penc@psumeteo.psu.edu

From qrp-1@lehigh.edu Tue Jun 6 14:13:51 1995
Message-Id: <9506061411.AA03153@fugu>
From: Bob Levine <levine@mc.com>
Subject: Oak Hills Kits
Date: Tue, 6 Jun 1995 10:13:51 EDT

If anyone is interested in seeing the Oak Hills Explorer or Wattmeter, I have posted a few digital photos on my Web page

<http://www.raddev.com/biz/raddev/>

Bob KD1GG

PS. Thanks for all those who replied about how to finish the cases and the best paint for the NorCal40A. I wet-sanded and used Krylon primer and Krylon spray paint. I think I have a unique patchwork quilt scheme. Yellow top, blue bottom, green back, white front (so the silk-screen will show up). I doubt it will be confused with anyone else's rig at Field Day!

From qrp-1@lehigh.edu Tue Jun 6 14:22:22 1995
Message-Id: <Pine.SUN.3.91.950606071817.28813B-1000000@crl3.crl.com>
From: Steven Wilson <randyw@crl.com>
Subject: Re: Oak Hills Kits
Date: Tue, 6 Jun 1995 10:22:22 EDT

Hi Bob, nice to see someone else trying to make the rigs look a little different. :-) I recently built a transistor rig for 40 meters and gave it a Desert Storm paint job, it came out looking real nice.
de stan ak0b

From qrp-1@lehigh.edu Tue Jun 6 18:41:58 1995
Message-Id: <199506061840.QAA21506@public.compusult.nf.ca>
From: rgobrick@public.compusult.nf.ca (Robert J. Gobrick)
Subject: Re: Oak Hills Kits
Date: Tue, 6 Jun 1995 14:41:58 EDT

QRP-L Gang,

Just checked out Bob KD1GG's Radio Devices WWW Homepage and it looks good.

Bob also had info on the new prerelease info of the Oak Hill Research 4-Bander Rig which Dick showed at Dayton. Boy Dick sure does listen to user feedback (boistrous qrpers) since the new 4-Bander (80,40,30,20) comes with 4-5 watt output and a 150Hz bandspan. This rig looks like a winner at \$319 - to me far exceeding the specs of the infamous HW-9.

Other QRP-L business user joins WWW - good luck Bob.

73/72 Bob V01DRB/WA6ERB

PS: You need a JPEG viewer for the photos - anyone know of a shareware/freeware viewer out there?

>If anyone is interested in seeing the Oak Hills
>Explorer or Wattmeter, I have posted a few digital
>photos on my Web page

>
><http://www.raddev.com/biz/raddev/>

>
>Bob KD1GG

>
>PS. Thanks for all those who replied about how
>to finish the cases and the best paint for the
>NorCal40A. I wet-sanded and used Krylon primer
>and Krylon spray paint. I think I have a unique
>patchwork quilt scheme. Yellow top, blue bottom,
>green back, white front (so the silk-screen will
>show up). I doubt it will be confused with anyone
>else's rig at Field Day!

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From qrp-l@lehigh.edu Tue Jun 6 16:01:47 1995
Message-Id: <m0sJ12U-00009FC@juts.ccc.amdahl.com>
From: bruce.florip@amail.amdahl.com
Subject: QRP thumb cw 100 yd DX.
Date: Tue, 6 Jun 1995 12:01:47 EDT

Hi All,

Just a quick story that I think will illustrate how a true CW-man can make the best of a situation.

At the monthly "Livermore Ham-Swap" in Livermore California, my friend and I had a pick-up truck load of "junk" for sale. About the only thing of value was the Atlas 350-XL sitting on a folding table. The Atlas was running from a gel cell, and the hustler whip was on the roof of the truck. Just to keep people interested, I was monitoring around 7040 khz.

Up walks Doug Hendricks to see what we're selling and to say Hi! I told him we could copy Wayne (Burdick N6KR) down the parking lot on his NorCal 40A. He says great! "Where's the key?" I said I only brought the mike... no key...

Somehow we thought... Let's plug the mike into the key jack and try the Push to Talk Switch... IT WORKS... Doug grabs the key (mike) and calls Wayne! Got Him! 100 yard DX! They had a nice chat and signed... Success... I heard somebody say "He sends better with his thumb than I do with my paddles!"

These QRPers are a great group!

By the way, the Wilderness Radio NC-40a sounded great. Bob and Wayne had a full size 40M dipole hung from a lamp post and two trucks. I listened while Wayne did demo QSOs all over the country during the swap. Mine is on order!

Thats it for now... Bruce AA7AR/6

From qrp-1@lehigh.edu Tue Jun 6 13:42:21 1995
Message-Id: <n1409691381.30824@wgs-2.bwi.bls.com>
From: "evans ken" <evans.ken@wgs-2.bwi.bls.com>
Subject: QRP+ group order
Date: Tue, 6 Jun 1995 09:42:21 EDT

For those of you on the QRP+ group order awaiting delivery, I received an invoice from INdex Labs yesterday. It stated that the radio was shipped June2, and the microphone was on back order. I guess delivery will be Wednesday at the earliest.

72/3
Ken KJ4XR
evans.ken@bwi.bls.com

From qrp-1@lehigh.edu Tue Jun 6 13:52:12 1995
Message-Id: <n1409702018.38835@Mailserver2>
From: "Robert Ontiveros" <robert_ontiveros@mailserver2.clix.com>
Subject: QRP-L
Date: Tue, 6 Jun 1995 09:52:12 EDT

	Subject:	Time: 6:29 AM
OFFICE MEMO	QRP-L	Date: 6/6/95

SUBSCRIBE QRP-L ROBERT_ONTIVEROS@CLIX.COM

From qrp-1@lehigh.edu Tue Jun 6 17:17:54 1995
Message-Id: <n1409681518.8450@msmailgw1.arlut.utexas.edu>
From: "rohre" <rohre@arlut.utexas.edu>
Subject: R7 Vertical and others mountings
Date: Tue, 6 Jun 1995 13:17:54 EDT

Eric Rehm of Seattle and others may get help from my going down this road with an R5 with the same construction as the R7, and prior to that a Hy Gain AVT-18, and presently with a Gap Titan model. Along the way, I helped another ham with a Gap Model VI or so.

Firstly, Eric if you still have the box, and the R7 is new. -- Why not have all the bands with full bandwidth and at least some of 80M with the low sunspots? To do that put a for sale sign on the R7 and get a Gap Titan model. (No Traps.) I hope I don't offend you with that, but the R7 does not advertise full bandwidth on 40 even, and that has been the wonderful thing about the Titan. It even covers more than 100 K Hz on 80M with 2:1 SWR up there at the edges. It is 1:1 over the whole of the other bands. The R5 we have experience with has not done as well at working out to DX, and I have heard the traps frequently fail in some cases, and am going to check the R5, which is at a friend's for bad traps, as he has not been getting good results.

The other reason I advise that, is the base clamping arrangement of the R7. It IS HARD to get the proper size pipe, to go up inside the bottom of the R7. Then ALL that is holding it against winds are two set screws. What happens to knobs after twisting for some time? The set screw loosens. Same for the R5 we put up, it tipped over after awhile. That is why they now tell you to guy them. Actually guying any vertical is a good idea if you have any winds ever at all.

You can get the nylon that is used for tieing up boats, and that is cheap at Wal Mart Discount stores with 880 pound test rating. Now it will stretch, so a slip

knot or turnbuckle can be used to take up eventual slack. Mail order cos. have kevlar, and other exotic non metal guy material. Go to a camping store too and see what they have that stretches the least and resists sun.

Back to the poor design of the R7 mount and what to do about it. If you are going to keep it, there is a way to fix it. Finally, a friend came up with large u bolts to do away with going up inside the bottom of the vertical tube, and instead just clamped the pipe to the outside of the vertical bottom tube.

Now, about roof mounting. As you describe, it is a bear to get strength on the roof areas where the foot print of the mounting sits. Weather proofing will always become unweatherproof, and be a constant maintenance item. DO NOT mount to a 49 year old chimney, nor to a vent pipe. You have too much torque arm with the length of the R7. What we did for the R5 can be done for the R7 or any vertical.

You can get steel water pipe, perhaps in salvage, in good condition. Or you can get steel or aluminum conduit pipe. We used the compression fittings to join two 10 Foot conduit pieces; but I would seek threaded conduit to do it again. We set this in concrete at side of house near the peak of the gable. We used a pipe strap arrangement at the trim board on the gable overhang to anchor the upper pipe, and we extended it above the roof by the amount to clear the roof peak. BTW, remember you have to hoist the vertical onto the top of this pipe, so don't have it too tall above the roof peak that you can't do this from atop the roof. The conduit type support is fine in the vertical condition; but NOT strong enough to walk up with the vertical attached to it, nor will you likely have room in a side yard.

Thus, with concrete holding the bottom of the vertical, and a clamp strap at the edge of the roof line, we had a very sturdy arrangement to hold our vertical. The R5, after we did away with the factory mounting scheme, has been adequately sturdy, even without guys. You can buy a bag of sackcrete which is premix for fence posts, and this is about 80 lbs. of concrete. You can dig a hole and then just shovel in a few scoops at a time, and mix just enough water to make a stiff mixture, this has more strength. Don't forget to set the pipe in the hole first on some rocks or gravel at the bottom so water drains away from it. You could also paint it before cementing like they do steel gas pipe. If it is galvanized outside finish, you can cement it directly.

For any wood you use, if you decide to go to all the work and risk of the over roof mounting of a tripod; use the pressure treated lumber that is for outdoor use. It is a bear to saw, but it can be painted, and will withstand the weather. Ordinary lumber, even red cedar like in fences will rot away in a short time.

Most hams become dis-satisfied with any antenna over time, or time and weather takes its toll. Therefore, I believe in putting antennas up in such a way that does the least alteration to the house, and certainly in a way to not bring roof

problems or chimney problems on the house---because it is not permanent anyway! Chimney mounts like you see at Radio Shack are good for just what you see on the box---small VHF antennas. As someone else put it once, chimneys were designed to let smoke out of the fireplace! The way old ones weather and the mortar may not be trustworthy, and the careless way modern ones have the mortar applied, makes me reluctant to trust one with any significant antenna, although I have wanted to; it looks very risky.

In assembling your vertical sections, place a no-ox compound that is sold for aluminum wiring from electrical supply stores, on the aluminum joints. This will keep the antenna conducting as long as possible, and ease its dis-assembly when you take it down to try another antenna. Aluminum untreated oxidizes rapidly, even in a few minutes, but we can't see the initial result; later you may see a white powder form. That is why it is usually stated to polish the joints with a fine sandpaper or abrasive before assembly.

Hope these thoughts help you out! Use elevated radials by the way, at least four. The ones that come on the R5 and R7 will be less efficient than quarter wave ones you add yourself. That is the opinion of the Butternut Antenna founder, Don Newcomb, and I agree that a good counterpoise is the best friend of the vertical of any design. The radials can be insulated hook up wire stapled along the edge of the roof, or run along the ridge. For the ridge or over roof verticals, you can tie on to nylon line to keep them in tension, and nail an anchor on the roof edge at the other side of the house. Three or four on an elevated vertical are usually sufficient. They are usually computed with the length equals 246 over frequency formula, which is 5% longer than a half a dipole.

Let us know how it turns out!
73, Stuart K5KVH

From qrp-1@lehigh.edu Wed Jun 7 02:22:28 1995
Message-Id: <9506070220.AA24861@ig1.att.att.com>
From: mvjfm@mvubr.att.com (James M Fitton 508 960 2577)
Subject: Simple Portable Antenna SPA
Date: Tue, 6 Jun 1995 22:22:28 EDT

For my money, the simplest, lightest, easiest and QUICKEST to erect portable antenna requiring only one support, is the endfed random wire. (With a few $1/4$ wave counterpoise wires running along the ground/floor/balcony etc....) Get the far end up high as you can..... Experiment at home with antenna length, and shave inches off the near end of your antenna wire til it tunes up where you

want it - mid range of your variable capacitor adjustments.
Tiny transistor radio broadcast variable caps should do just
fine..... Mine are 150pf variables. Experiment, keep a
notebook, and send your results to K1LGQ at QRP-NE.

We need your articles !

The Tuner on page 167, Fig. 60, "Solid State Design" with
tuning indicator, is quite efficient for 1 band (maybe 2),
works very well and can be made tiny. Bridge Theory appears
on pg.153

I have worked from hotel room in CA, to W1 land with 40-40
and NC40 with this ant., tuner, and SWR indicator (which is
removed after tuner is adjusted) BNC connectors
are small, quick and easy to connect and disconnect.

Indicator on Pg 150 also works VERY well and can be made
quite tiny. Loss through this indicator is less than .1 watt.
I have used this as a tuning indicator for years and on weak
signals, take it out of the feedline path after tuning up my
single wire antenna.

Regardless of what they say, higher is better !

72 Jim W1FMR

From qrp-1@lehigh.edu Tue Jun 6 20:43:16 1995
Message-Id: <9506062340.22615.ah@SMROUTER.AAC.COM>
From: Johnson_Dan@AAC.COM
Subject: Re: Solar Flux
Date: Tue, 6 Jun 1995 16:43:16 EDT

Content-Type: text/plain; charset=US-ASCII

On 6/6/95 at 1:44 AM, Fr. Bruce Bowes <GBB1@MARISTB.MARIST.EDU> wrote:

> Is there an internet address where you can get daily Solar Flux
> information?
> I'm not always at the radio at 18 minutes after the hour.

Dunno, but if you don't mind paying, you can call WWV:

(303) 497-3235

at any minute after the hour for the same thing you'd get free at :18.

If you don't mind getting it a week at a time, the W1AW list sends a weekly summary in addition to the other W1AW bulletins. Traffic is usually just a trickle per week. The prop report shows daily sunspot and flux numbers (no A or K indices), describes what's happening now with a forecast, and gives band openings between a pair or two of locations on the planet, a different pair each time. Lemme know if you'd like a sample from 6/2.

To subscribe, send mail to "listserv@netcom.com". It ignores the message's subject. Put "subscribe w1aw-list" (sans quotes) as the sole line in the body of the message.

gl es sunny 72 de KC4EWT (Herndon VA)
Johnson_Dan@aac.com

From qrp-1@lehigh.edu Tue Jun 6 20:56:34 1995
Message-Id: <199506062054.AA078852063@hplsdn2.col.hp.com>
From: "David F. Kurth" <dfk@col.hp.com>
Subject: Re: Solar Flux
Date: Tue, 6 Jun 1995 16:56:34 EDT

On 6/6/95 at 1:44 AM, Fr. Bruce Bowes <GBB1@MARISTB.MARIST.EDU> wrote:

> Is there an internet address where you can get daily Solar Flux
> information?
> I'm not always at the radio at 18 minutes after the hour.
>

I've been using the following:

finger solar@xi.uleth.ca

73 Dave NOUVR
dfk@col.hp.com

From qrp-1@lehigh.edu Tue Jun 6 14:06:40 1995
Message-Id: <9506061421.AA06931@dtcs70.dtc.kodak.com>
From: mitchell@dtcs70.dtc.kodak.com (Brad Mitchel)
Subject: url for other kit compaines??
Date: Tue, 6 Jun 1995 10:06:40 EDT

Anybody know of url's of other kit companies?

I got the kanga stuff, which is great!, but wonder if for instance if HOWE or some of the other kit companies have their stuff on line?

73 Brad WB8YGG